

**X(10610)<sup>0</sup>** $I^G(J^P) = 1^+(1^+)$ 

## OMMITTED FROM SUMMARY TABLE

Observed by KROKOVNY 13 in  $\gamma(10860) \rightarrow \gamma(nS)\pi^0\pi^0$  ( $n=2,3$ ).Isospin 1 is favored from the proximity in mass to  $X(10610)^{\pm}$  and their similarity of observed decay modes and cross sections.  $J^P = 1^+$  is favored from angular analysis of  $X(10610)^{\pm}$  decays by BONDAR 12.**X(10610)<sup>0</sup> MASS**

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
<b>10609±4±4</b>	<sup>1</sup> KROKOVNY 13	BELL	$e^+e^- \rightarrow \gamma(2S)/\gamma(3S)\pi^0\pi^0$
<sup>1</sup> From a simultaneous fit to the KROKOVNY 13 Dalitz analysis of $e^+e^- \rightarrow \gamma(2S)/\gamma(3S)\pi^0\pi^0$ decays with fixed width $\Gamma(X(10610)^0) = 18.4$ MeV.			

**X(10610)<sup>0</sup> DECAY MODES**

Mode	Fraction ( $\Gamma_i/\Gamma$ )
$\Gamma_1 \quad \gamma(1S)\pi^0$	not seen
$\Gamma_2 \quad \gamma(2S)\pi^0$	seen
$\Gamma_3 \quad \gamma(3S)\pi^0$	seen

**X(10610)<sup>0</sup> BRANCHING RATIOS**

$\Gamma(\gamma(1S)\pi^0)/\Gamma_{\text{total}}$	$\Gamma_1/\Gamma$
not seen	KROKOVNY 13 BELL $e^+e^- \rightarrow \gamma(1S)\pi^0\pi^0$

$\Gamma(\gamma(2S)\pi^0)/\Gamma_{\text{total}}$	$\Gamma_2/\Gamma$
seen	KROKOVNY 13 BELL $e^+e^- \rightarrow \gamma(2S)\pi^0\pi^0$

<sup>2</sup> Combined significance in  $e^+e^- \rightarrow \gamma(2S)/\gamma(3S)\pi^0\pi^0$ , including systematics, of  $6.5\sigma$ .

$\Gamma(\gamma(3S)\pi^0)/\Gamma_{\text{total}}$	$\Gamma_3/\Gamma$
seen	KROKOVNY 13 BELL $e^+e^- \rightarrow \gamma(3S)\pi^0\pi^0$

<sup>3</sup> Combined significance in  $e^+e^- \rightarrow \gamma(2S)/\gamma(3S)\pi^0\pi^0$ , including systematics, of  $6.5\sigma$ .**X(10610)<sup>0</sup> REFERENCES**KROKOVNY 13 PR D88 052016  
BONDAR 12 PRL 108 122001P. Krokovny *et al.*  
A. Bondar *et al.*(BELLE Collab.)  
(BESIII Collab.)